Ontario Ministry of Northern Development and Mines

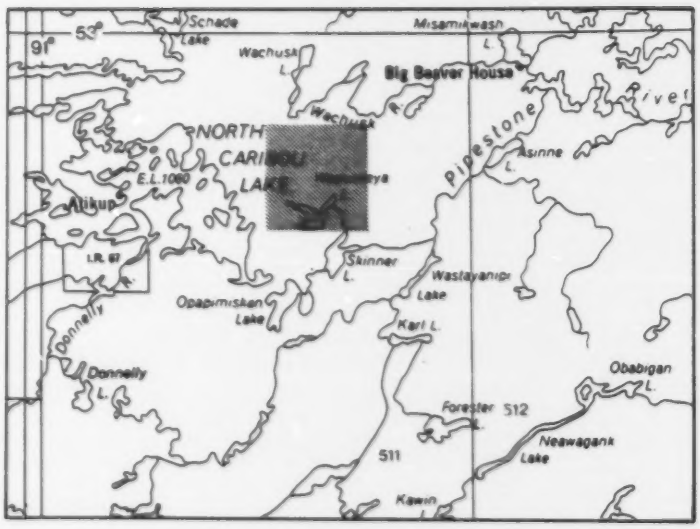
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 522

AKOW LAKE AREA

Compiled by the Staff of
the Resident Geologist's Office
Sioux Lookout



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

91-00220/

NTS Number 53B/16SW

Mining Claim Map Number G.1928

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Akow Lake Area, Geological Data Inventory Folio 522; compiled by the staff of the Resident Geologist's office, Sioux Lookout.

Original Compilation by: C.J. Proctor and M.O. Roy

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

For further information please contact:

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ACCOMPANYING MAPS

Files Index Map 1

Exploration Data Map 1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept., (A.R.)	Annual Report
A.R.I.P.	Aggregate Resources Inventory Paper
Bull.	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull	Geological Society of America Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
M.P.	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
O.G.S.	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
Sum. Rept.	Summary Report

DATA SOURCES CHECK LIST

NOTE. The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	AFRO	CJP
3	ODM General Index, 9 Volumes	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Thesis - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	YES	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (O G S)	NO	CJP
14	Author - Subject Articles File	NO	CJP
15	Miscellaneous Papers ODM & OGS	YES	CJP
16	ODM Geological Circulars OGS Study Series	NO	CJP
17	ODM Preliminary Reports ODM Bulletins	NO	CJP
18	ODM - OGS Open File Reports	YES	CJP
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	CJP
20	OGS Aggregate Resources Inventory Papers	NO	CJP
21	OGS Mineral Potential Maps	YES	CJP
22	Drill Core Library Catalogue	NO	CJP
23	Aerial Photographs	NO	CJP
24	Unpublished Theses	NO	CJP

METALS AND MINERALS REFERENCES LIST

△ anh	Anhydrite	△ fu	Fuchsite	△ Ni	Nickel	△ st	Stone
△ ank	Ankerite	△ gn	Galena	△ Nb	Niobium	△ s	Sulphides
△ anna	Annabergite	△ gt	Garnet	△ Pd	Palladium	△ talc	Talc
△ ap	Apatite	△ goe	Goethite	△ peat	Peat	△ Te	Tellurium
△ arg	Argentite	△ Au	Gold	△ pent	Pentlandite	△ td	Tetrahedrite
△ As	Arsenic	△ gf	Graphite	△ Pt	Platinum	△ th	Thorite
△ asp	Arsenopyrite	△ gl	Gravel	△ py	Pyrite	△ Th	Thorium
△ asb	Asbestos	△ gyp	Gypsum	△ pyl	Pyrochlore	△ thuc	Thucholite
△ ba	Barite	△ hem	Hematite	△ pyrl	Pyrolusite	△ ti	Titanite
△ be	Beryl	△ il	Ilmenite	△ po	Pyrrhotite	△ Ti	Titanium
△ Bi	Bismuth	▲ Fe	Iron	△ q	Quartz	△ tour	Tourmaline
△ bn	Bornite	△ IF	Iron Formation	△ qcv	Quartz carbonate vein	△ trap	Trap rock
△ bran	Brannerite	△ jas	Jasper	△ ra	Radioactive minerals	△ W	Tungsten
△ bruc	Brucite	△ kaol	Kaolinite (kaolin)	△ RE	Rare Earths	△ uran	Uraninite
△ Cd	Cadmium	△ ky	Kyanite	△ sd	Sand	△ U	Uranium
△ calc	Calcite	△ Pb	Lead	△ sgl	Sand and gravel	△ verm	Vermiculite
△ carb	Carbonate	△ lim	Limonite	△ ss	Sandstone	△ Y	Yttrium
△ cel	Celestite	△ Li	Lithium	△ scap	Scapolite	△ Zn	Zinc
△ cc	Chalcocite	△ mgst	Magnesite	△ shee	Scheelite	△ zr	Zircon
△ cp	Chalcopyrite	△ mag	Magnetite	△ serp	Serpentine		
△ ch	Chert	△ mc	Malachite	△ sh	Shale		
△ clay	Clay	△ Mn	Manganese	△ sid	Siderite		
△ Co	Cobalt	△ mb	Marble	△ si	Silica		
△ cob	Cobaltite	△ mar	Marcasite	△ Ag	Silver		
△ cb	Columbite	△ ma	Marl	△ sl	Slate		
△ Cu	Copper	△ mi	Mica	△ sm	Smaltite		
△ cor	Corundum	△ ml	Millerite	△ sod	Sodalite		
△ dol	Dolomite	△ mo	Molybdenite	△ spec	Specularite		
△ ep	Epidote	△ Mo	Molybdenum	△ sp	Sphalerite		
△ ery	Erythrite	△ mon	Monazite	△ spd	Spodumene		
△ fel	Feldspar	△ ne	Nephelite (nepheline)	△ staur	Staurolite		
△ fl	Fluorite (flurospar)	△ nc	Niccolite	△ stib	Stibnite		

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	AKOW LAKE OCCURRENCES (because of the length of this formation, it has not been plotted on the map)	Fe	--	MRC 11, p.235	-A band of iron formation located from about 2 miles north of Akow Lake - to Akow Lake - and intermittently south to Opapimiskan Lake -Map 48h -Map 929G -Map 919G -G.S.C. Map 18-1961

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
(see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	Overburden Drilling		
Ref No on Map	COMPANY/AUTHOR (file number)																			
1	COMINCO L. (53B/09NW-0018)		82															82		
2	INCO L. (53B/16SW-0010-A1)				62															
3	INCO L. (53B/16SW-0010-B1)				61/62	63														
4	EXPLORA-5 L. PARTNERSHIP FOUR SQUARE SYNDICATE (53B/16SW-0011)											87	87							
5	MOSS RESOURCES ONTARIO L. (635479) (53B/16SW-0012)	85		85		85														
6	MOSS RESOURCES L. ONTARIO L. (635479) (53B/16SW-0013)											85	85							
7	ELDOR RESOURCES L. ELDORADO NUCLEAR L. (53B/15SE-0019)											85	85							
8	POWER EXPLORATION INC. (53B/16SW-0014) (*2.10583)	87		87		87														

*Toronto File Number

AKOW LAKE AREA

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	INCO L.	15772	1962	E	-45	43.00	422.00	po,py	--
2	INCO L.	15781	1961	W	-45	55.00	55.00	--	
3		23106	1962	E	-45	6.80	84.00	po,py	--
		23129	1963	E	-45	32.70	77.00	po,py,cp	--
		(location of 23129 is not known, therefore it has not been plotted)							

● —— indicates core stored at Drill Core Library

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
Not on Index Map	-Aerodat Ltd. -Ont. Geological Survey -1985	-Aerodat Electromagnetic System (Input) -Geometrics G-803 Proton Precession Type Magnetometer	45m	NE-SW	200m

AKOW LAKE AREA

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference Resident Geologist's Office Files
1	BASIL TILL	Au,Cu,Pb,Zn	COMINCO L.	53B/09NW-0018

AKOW LAKE AREA

GEOCHRONOLOGY DATA - AGE DATING

Site	Method	Material	Reference	Result
NO	DATA AS OF JUNE,	1989		

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist's office:

(a) Aerial Photographs: NO DATA AS OF JUNE, 1989

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:250,000	1981	North Caribou Lake 53B	Surveys & Mapping Branch, Dept. of Energy, Mines and Resources

AKOW LAKE AREA

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

COMPANY	NEWSPAPER	DATE	PAGE
MOSS RESOURCES	NORTHERN MINER	JUNE 13/85	p.3
POWER EXPL.	NORTHERN MINER	JULY 11/88	p.23

ODM GENERAL INDEX SEARCH

Words searched: AKOW LAKE, DINNICK LAKE, WAPUSKEYA LAKE, ATIM LAKE

Index Volume	Listing	Report Volume	Part	Page
III	GEOLOGY OF THE WINDIGO-NORTH CARIBOU LAKE AREAS	XLVIII	9	1-32
8	AKOW LAKE OCCURRENCES, CARIBOU LAKE AREA, PATRICIA DISTRICT	MRC	11	p.235
9	GEOLOGY OF THE WINISK LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION)	GR	193	

AKOW LAKE AREA

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
ANDREWS, A.J. SHARPE, D.R. JANES, D.A.	1981	A PRELIMINARY RECONNAISSANCE OF THE WEAGAMOW-NORTH CARIBOU LAKE METAVOLCANIC-METASEDIMENTARY BELT, INCLUDING THE OPAPIMISKAN LAKE (MUSSEL-WHITE) GOLD OCCURRENCE, 203-213 IN SUMMARY OF FIELD WORK, 1981, BY THE O.G.S., MP 100, 255p.	MP 100	p.203-213
BREAKS, F.W. BARTLETT, J.R. DEKEMP, E.A. OSMANI, E.A.	1986	PRECAMBRIAN GEOLOGY OF THE DOUBTFUL-AKOW LAKE AREA (OPAPIMISKAN LAKE PROJECT), KENORA DISTRICT (PATRICIA PORTION), O.G.S. MAP P.2965, GEOLOGICAL SERIES	P.2965	1:31,680
BREAKS, F.W. BARTLETT, J.R. OSMANI, I.A. FINAMORE, P.F. WALLACE, H.	1985	OPAPIMISKAN LAKE PROJECT, PRECAMBRIAN AND QUATERNARY GEOLOGY OF THE NORTH CARIBOU AREA, DISTRICT OF KENORA (PATRICIA PORTION), p.268-276 IN SUMMARY OF FIELD WORK AND OTHER ACTIVITIES, O.G.S., MP 126, 351p.	MP 126	p.268-276
DUFFELL, S. MACLAREN, A.S. HOLMAN, R.H.C. (G.S.C.)	1963	RED LAKE-LANSDOWNE HOUSE AREA, NORTHWESTERN ONTARIO, BEDROCK GEOLOGY, GEOPHYSICAL AND GEOCHEMICAL INVESTIGATIONS (PARTS OF 42,43,52,53) REPORT, MAP 2-1963, MAP 3-1963	PAPER 63-5 MAP 2-1963 MAP 3-1963	 1"=8 MILES 1:506,880
EMSLIE, R.F. HOLMAN, R.H.C. (G.S.C.)	1966	THE COPPER CONTENT OF CANADIAN SHIELD ROCKS, RED LAKE-LANSDOWNE HOUSE AREA, NORTHWESTERN ONTARIO, BULLETIN 130	BULLETIN 130	--
G.S.C.	1963	GEOCHEMISTRY (COPPER IN BEDROCK) NORTH CARIBOU LAKE, ONTARIO, MAP 52-1963	MAP 52-1963	1"=4 MILES 1:253,440
MEYN, H.D. ROBERTSON, JAMES A.	1975	IRON DEPOSITS OF ONTARIO, NORTHWESTERN SHEET, DISTRICT OF KENORA (PATRICIA PORTION), O.D.M.P. MAP 1040, MINERAL DEPOSITS SERIES	P.1040	1"=16 MILES 1:1,013,760

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
O.D.M.	1939	NORTH CARIBOU LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), ONTARIO, MAP 48h, TO ACCOMPANY REPORT BY J. SATTERLY	MAP 48h	1"=1 MILE 1:63,360
O.D.M.	1959	WACHUSK LAKE, KENORA DISTRICT, ONTARIO, AEROMAGNETIC SERIES, MAP 929G	MAP 929G	1"=1 MILE 1:63,360
O.D.M.	1973	BIG TROUT LAKE-NORTH CARIBOU LAKE, GEOLOGICAL COMPILATION SERIES, KENORA DISTRICT, MAP 2292	MAP 2292	1"=4 MILES 1:253,440
O.G.S.	1985	AIRBORNE ELECTROMAGNETIC AND TOTAL INTENSITY MAGNETIC SURVEY, OPAPIMISKAN LAKE AREA, DISTRICT OF KENORA, PATRICIA PORTION BY AERODAT L. GEOPHYSICAL/GEOCHEMICAL SERIES, MAPS 80735, 80736, 80737, 80738 and 80739	MAPS 80735 80736 80737 80738 80739	1:20,000
PIROSHCO, P.	1986	STRUCTURAL GEOLOGY AND GOLD MINERALIZATION OF THE EYAPAMIKAMA LAKE AREA OF THE NORTH CARIBOU LAKE GREENSTONE BELT, DISTRICT OF KENORA (PATRICIA PORTION), p.279-385 IN SUMMARY OF FIELD WORK AND OTHER ACTIVITIES, O.G.S., MP 132, 435p.	MP 132	p.379-385
PREST, V.K.	1963	RED LAKE-LANSDOWNE HOUSE AREA, NORTHWESTERN ONTARIO, SURFICIAL GEOLOGY, PARTS OF 42,43,52,53, PAPER 63-6, MAP 4-1963, MAP 5-1963	PAPER 63-6 MAP 4-1963 MAP 5-1963	1"=8 MILES 1:506,880
ROBERTSON, JAMES A. VOS, M.A. SPRINGER, JANET S.	1976	MINERAL POTENTIAL MAP OF ONTARIO 1976, NORTHWESTERN SHEET, O.D.M. PRELIMINARY MAP P.1096, MINERAL DEPOSITS SERIES	P.1096	1"=16 MILES 1:1,013,760
SATTERLY, J.	1938	PRELIMINARY REPORT ON THE WINDIGO-WEAGAMOW-CARIBOU LAKES AREA, P.R. 1938-4	P.R. 1938-4	--
SHKLANKA, R.	1968	IRON DEPOSITS OF ONTARIO, MINERAL RESOURCES CIRCULAR NO. 11, O.D.M.	MRC 11	p.235

AKOW LAKE AREA

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
SPRINGER, JANET	1978	ONTARIO MINERAL POTENTIAL, NORTH CARIBOU SHEET, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S. MAP P.1547, MINERAL DEPOSITS SERIES	P.1547	1:250,000
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1971	OPERATION WINISK LAKE, WEAGAMOW LAKE SHEET, DISTRICT OF KENORA (PATRICIA PORTION) O.D.M. AND NORTHERN AFFAIRS, MAP P.711, GEOLOGICAL SERIES	P.711	1"=2 MILES
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1971	OPERATION WINISK LAKE, DISTRICT OF KENORA (PATRICIA PORTION), p.13-21 IN SUMMARY OF FIELD WORK, 1971 BY THE GEOLOGICAL BRANCH, O.D.M. AND NORTHERN AFFAIRS, MP 49, 109p.	MP 49	p.13-21
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1975	OPERATION WINISK LAKE, DISTRICT OF KENORA (PATRICIA PORTION) DIVISION OF MINES, O.F.R. 5119, 297p.	O.F.R. 5119	--
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1979	GEOLOGY OF THE WINISK LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S. REPORT 193, 169p., ACCOMPANIED BY MAPS 2287 and 2292	REPORT 193 MAPS 2287 2292	1:253,440

NOTES AND ADDENDA

NO DATA AS OF JUNE 1989

MAPS
NOT
FILMED

CARTES
OMISES